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CONTACT

Markets and Products Information
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FIRE RESISTANT DATA CABLES

Fostering innovation, Lynxéo designed FLAMEX® EN 50200 MVB, WTB and CAN BUS cables that can reach data transmission performances for Category 5E or 6A as described in the ISO/CEI 11801, showing no loss of data train and no drop of the transmission parameters when burnt. This unique fire performance is achievable thanks to our technology for fire resistant cables known as INFIT™. On top of the fire performances, this technology makes easier and faster the preparation and the connection of the wires with rolling stock connectors compared to older taping technologies.

STANDARDS

Product EN 50464-1; EN 45545-2 (HL3)

Test EN 50200

DESIGN

1. Conductor

Stranded tinned copper (metric or AWG sizes)

2. Insulation

Special halogen-free INFIT™ fire proof material
Quad or Pairs assemblies

3. Screen

Tinned copper braid
Separator tape

4. Outer sheath

Cross-linked material EM 104 or EM 101 acc. EN 50264-1
Oil, diesel, ozone and UV resistant
Colour: red

Example of marking: FLAMEX 239 - ...

ADDITIONAL INFORMATION

- Fire resistant acc. to:
 - EN 50200 PH 30-60 tested under 110 V
 - EN 50200 PH 90 Ethernet frame loss and transmission parameter
- Bending radius:
 - Static use: 8 x outer cable diameter
 - For installation and occasional movements: 10 x outer cable diameter



Conductor flexibility
-



Halogen free
EN 60754-1 & EN 60684-2



Fire resistant
EN 50200 PH90



Flame retardant
EN 60332-1-2



Fire retardant
EN IEC 60332-3-24
(cat C); EN IEC 60332-3-25
(EN50305)



Smoke density
EN/IEC 61034-2



Gases toxicity
EN 50305-9.2



Electro magnetic
interference
resistance
Yes

CHARACTERISTICS**Construction characteristics**

Conductor material	-
Construction type	1x2x0,75
Conductor flexibility	-
Sheath colour	Red
Outer sheath	Cross-linked compound
Halogen free	EN 60754-1 & EN 60684-2
Screen	
Type of cable	WTB

Dimensional characteristics

Core diameter	4.5 mm
Minimum cable diameter	11.3 mm
Maximum cable diameter	11.7 mm
Approximate weight	160 kg/km

Electrical characteristics

Characteristic impedance	120 Ohm
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Usage characteristics

Fire resistant	EN 50200 PH90
Flame retardant	EN 60332-1-2
Fire retardant	EN IEC 60332-3-24 (cat C); EN IEC 60332-3-25 (EN50305)
Smoke density	EN/IEC 61034-2
Gases toxicity	EN 50305-9.2
Electro magnetic interference resistance	Yes